



CONSTRUCTION EQUIPMENT

SWO-065667 VOLVO A45G 352708 - DIESEL ENGINE



Sample No: VCP433248
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWO-065667



SAMPLE INFORMATION

Sample Number	VCP433248	VCP424300	VCP396764	VCP369293
Sample Date	11 Sep 2023	06 Jul 2023	24 Mar 2023	08 Nov 2022
Machine Hours	4418	3920	3429	2956
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	12.7	12.5	12.7
Base Number (BN)	mg KOH/g	7.1	10.3	9.9	8.8
Oxidation (PA)	%	72	79	77	71



CONTAMINATION

Soot %	%	0.4	0.2	0.3	0.5
Nitration (PA)	%	82	58	63	84
Sulfation (PA)	%	62	61	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.3	<1.0	<1.0	<1.0
Silicon	ppm	7	4	6	6
Sodium	ppm	6	2	2	4
Potassium	ppm	2	1	0	0



WEAR METALS

Iron	ppm	12	6	11	13
Copper	ppm	5	<1	1	3
Lead	ppm	2	1	<1	3
Tin	ppm	3	<1	<1	2
Aluminum	ppm	6	2	2	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	26	40	41	31
Nickel	ppm	3	2	2	3
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1505	1654	1571	1483
Magnesium	ppm	668	476	513	567
Zinc	ppm	948	1039	1042	862
Phosphorus	ppm	738	844	832	679
Barium	ppm	0	0	0	0
Boron	ppm	44	54	51	39

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: SAIBIR
Unique No: 10647175
Signed: Jonathan Hester
Report Date: 19 Sep 2023



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VOLVO GRAPHS

